



U.S. Department of Energy
Energy Efficiency and Renewable Energy

federal energy management program

Energy Efficiency & Historic Preservation in Federal Buildings

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Federal Energy Management Program



U.S. Department of Energy
Energy Efficiency and Renewable Energy

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Federal Mandates

- **Public Laws**

- *National Historic Preservation Act, amended 2000*
- *National Energy Policy Act, 2005*

- **Executive Orders**

- *Executive Order 13287 - Preserve America, 2003*
- *Executive Order 13123 - Greening the Government through Efficient Energy Management - 1990*

- **Code of Federal Regulations (CFR)**

- **Federal Acquisition Regulations**

- **OMB Circulars**



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Energy Policy Act of 2005

- **Existing buildings** must reduce energy use by 2% per year from 2006 - 2015 (from 2003 baseline year) & new construction or major renovation must use 30% less energy than ASHRAE Std 90.1
- **Agencies** required to obtain 7.5% renewable electricity by 2013 & on-site projects receive double credit
- **Energy Savings Performance Contracts (ESPC)** reauthorized through 2016 with no limitations



National Historic Preservation Act

- **Creates** the Advisory Council on Historic Preservation (ACHP) and National Register of Historic Places (National Register)
- **Requires** consultation process for all Federal undertakings
 - Identify & mitigate adverse effects
 - Allow for broad range of stake-holders to comment



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FEMP Program

Focus on Market Transformation

- Financing & Acquisition Support
- Technical Assistance
- Outreach
- Policy & Interagency Coordination
- Procurement

www.eere.energy.gov/femp



Alignment of Energy Efficiency & Historic Preservation

- **Utility cost savings** provide more funds for preservation efforts
- **Historic preservation** vs. new construction reduces waste
 - Energy embodied in materials is 30% of energy used for entire life of building
- **Historic feature restoration** enhances efficiency: daylight, natural ventilation, shutters, awnings, etc.
- **New technology and infrastructure** can enhance quality of lighting, temperature & humidity, & enhance preservation of the shell and artifacts.



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Restoring Historic Energy Features





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Integration of New Technology





Workshop Objectives

- Share information through presentations
- Examine synergies between energy efficiency & historic preservation
- Identify obstacles & possible solution
- Identify areas requiring more research

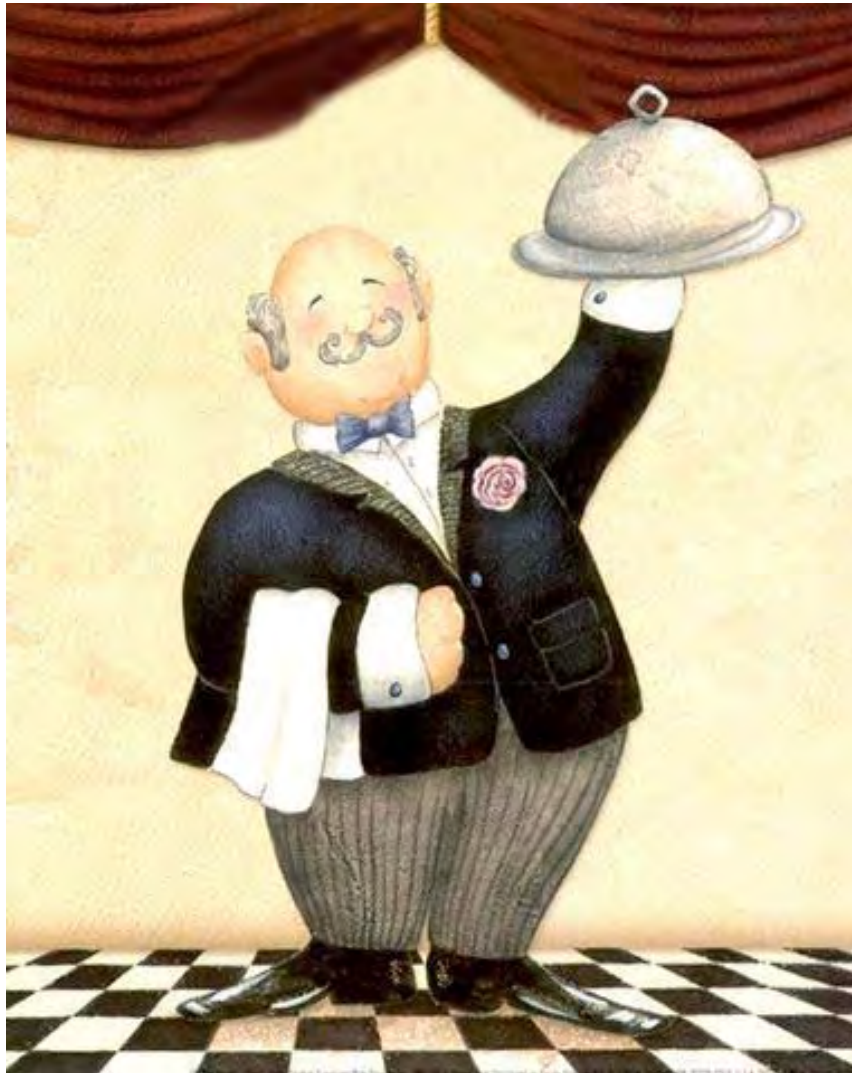
Expected Outcome

- Informative proceedings
- List of priority research topics
- Bulletized guidance on process
- Foster further collaboration



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